

AMENDMENTS TO THE CLAIMS

Pursuant to 37 C.F.R. § 1.121, the following listing of claims will replace all prior versions, and listings of claims in the application.

1. (Currently amended) A pump,

- with a rotor, which is present fixedly in terms of rotation on a drive shaft connectable to a motor drive and which possesses a radially projecting rotor collar running around in a wavy manner, and a rotor hub, ~~said rotor hub~~ surrounding a projecting end region of the drive shaft,
- with delimiting faces delimiting the rotor collar on both sides in the axial direction and leaving between them a pumping duct,
- with an inlet and an outlet for the pumping duct,
- with an axially adjustable sealing slide bearing sealingly against the rotor collar on both sides in the axial direction and subdividing the pumping duct between the inlet and the outlet,
- characterized in that
- a first bearing for the drive shaft, for the supporting the mounting of the drive shaft in the radial direction and for absorbing radial and axial forces, is present at the projecting end region of the drive shaft within a clear space region in the axial direction of the shaft occupied by the rotor collar;

this first bearing has at least one bearing which is present within the clear space region occupied in the axial direction by the rotor collar.

a bush is present on the inside of a the rotor hub of the rotor in such a way that the bush sealingly covers each of the bearings which are freely accessible after the removal of the rotor from the drive shaft.

there is in the rotor hub at least one ventilation duct through which air can flow when the rotor is pushed onto the bush or when the rotor is drawn off from the bush, and

a ventilation groove is present and is integrally formed in the rotor hub on the inside as a ventilation duct.

2. (Canceled)

3. (Previously presented) The pump as claimed in ~~any one of the claims~~ claim 1 or 2,
- characterized in that
 - a sleeve-shaped shaft carrier carrying the drive shaft is projects from the pump outer wall adjacent to the motor drive toward the clear space region,
 - this first bearing point for the drive shaft is present in the projecting end region of the shaft carrier.
4. (Previously presented) The pump as claimed in claim 3,
- characterized in that
 - the rotor is fastened fixedly in terms of rotation in the projecting end of the drive shaft,
 - the rotor is mounted rotatably in the manner of an end cap on the shaft carrier.
5. (Previously presented) The pump as claimed in claim 3,
- characterized in that
 - the first bearing point for the drive shaft of the rotor is present on the inside of the shaft carrier and a bearing point for the rotor, for the supporting mounting of the rotor in the axial direction, is present on the opposite outside of the shaft carrier.
6. (Previously presented) The pump as claimed in claim 5,
- characterized in that
 - the first bearing point, present in the projecting end region of the shaft carrier, for the drive shaft and the bearing point for the rotor are present in the same axial cross-sectional plane.
7. (Previously presented) The pump as claimed in claim 4,
- characterized in that
 - the first bearing point for the drive shaft is present on the outside of the shaft carrier,
 - this bearing point is at the same time a bearing point for the rotor, for the supporting mounting of the rotor in the axial direction.
8. (Previously presented) The pump as claimed in claim 3,

- characterized in that
- the first bearing point consists of a plurality of bearings.

9. (Previously presented) The pump as claimed in claim 3,

- characterized in that
- a second bearing point for the drive shaft is present in the region of the pump outer wall adjacent to the motor drive,
- this second bearing point is designed at least for the supporting mounting of the drive shaft in the radial direction.

10. (Previously presented) The pump as claimed in claim 3,

- characterized in that
- it possesses a pump casing and a bearing block carrying the latter,
- the pump casing is fastened releasably with its axial rear wall to a holding flange of the bearing block.

11. (Previously presented) The pump as claimed in claim 10,

- characterized in that
- the drive shaft penetrates through the holding flange and terminates in the pump casing.

12. (Original) The pump as claimed in claim 11,

- characterized in that
- a bearing point for the drive shaft is present in the holding flange.

13. (Previously presented) The pump as claimed in claim 10,

- characterized in that
- the pump casing can be fastened, such as, in particular, firmly screwed, to the holding flange in various rotary positions.

14. (Previously presented) The pump as claimed in claim 4,

- characterized in that
- the shaft carrier intrinsically carrying the drive shaft for the rotor and projecting into the pump casing can be fastened to the holding flange of the bearing block.

15. (Previously presented) The pump as claimed in claim 10,

- characterized in that
- the pump casing can be screwed, such as, in particular, can be screwed in various rotary positions, to a flange of the shaft carrier.

16. (Canceled)

17. (Currently amended) The pump as claimed in claim ~~16~~ 1,

- characterized in that
- the bush is mounted fixedly in terms of rotation on the drive shaft.

18. (Canceled)

19. (Currently amended) The pump as claimed in claim ~~18~~ 1,

- characterized in that
- at least one ventilation bore in an the end wall region of the rotor hub is present as a ventilation duct.

20. (Canceled)

21. (Currently amended) The pump as claimed in claim ~~20~~ 1,

- characterized in that
- the ventilation groove is present helically.

22. (Currently amended) The pump as claimed in claim ~~16~~ 1,

- characterized in that
- a holding ring is sealed off with respect to the bush in the axial direction.

23. (Previously presented) The pump as claimed in claim 22,
- characterized in that
 - there is in the bush at least one sliding ring which, pressing in the axial direction, can be brought to bear in each case against at least one sliding ring present in the holding ring.